

Title (en)

Electronic system for monitoring a fifth wheel hitch

Title (de)

Elektronisches Überwachungssystem für Sattelkupplungen

Title (fr)

Dispositif de surveillance électronique pour couplages de cinquième roue

Publication

EP 1120334 B1 20061011 (EN)

Application

EP 01300734 A 20010129

Priority

US 49353400 A 20000128

Abstract (en)

[origin: EP1120334A2] An electronic system monitors a trailer hitch assembly (20) that has a hitch plate (26) with a throat (60) for receiving a kingpin (70) of a trailer and a locking mechanism (28) for locking the kingpin (70) in throat (60). The system determines whether the trailer hitch assembly (20) is properly coupled to the trailer and includes a trailer sensor (32,34), a lock sensor (36), and a control circuit (100). The trailer sensor (32,34) senses the position of the trailer relative to the trailer hitch assembly (20) and the lock sensor (36) senses the position of the locking mechanism (28). The control circuit (100) is coupled to the trailer sensor (32,34) and the lock sensor (36), and determines whether the trailer hitch assembly (20) is properly coupled to the trailer by taking into account the sequence in which the trailer sensor (32,34) and the lock sensor (36) sense the respective positions of the trailer and the locking mechanism (28), as well as, the time periods elapsing between the sensing at such positions.
<IMAGE>

IPC 8 full level

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CPC (source: EP KR US)

B62D 53/10 (2013.01 - EP US); **B62D 53/12** (2013.01 - EP KR US); **Y10S 280/14** (2013.01 - EP US)

Cited by

EP1685757A1; AU2002300418B2; CN1332844C; EP1295783A3; US11084342B2; US11491832B2; US10670479B2; US11135882B2; US10696109B2; US10940726B2; US11221262B2

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EP 01300734 A 20010129; AU 1002201 A 20010102; BR 0100177 A 20010126; CA 2330265 A 20010105; CN 01101692 A 20010122; DE 60123687 T 20010129; JP 2001017894 A 20010126; KR 20010003872 A 20010127; US 49353400 A 20000128